



SCOPE OF ACCREDITATION TO
ISO/IEC 17025:2005 & ANSI/NCSL Z540-1-1994

Tektronix Service Solutions

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CALIBRATION

Valid to: January 18, 2015

Certificate Number: AC-1203

I. Electromagnetic - DC/Low Frequency

| PARAMETER/ EQUIPMENT | RANGE | CALIBRATION & MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)] | REFERENCE STANDARD OR EQUIPMENT | METHOD(S) |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------|
| DC Voltage - Source | Up to 220 mV 220 mV to 2.2 V (2.2 to 11) V (11 to 22) V (22 to 220) V 220 V to 1.1 kV | 8 µV/V + 600 nV 7 µV/V + 1 µV 7 µV/V + 3.5 µV 7 µV/V + 6.5 µV 8 µV/V + 80 µV 9 µV/V + 500 µV | Fluke 5700A/5725A | OEM and GIDEP Sourced Calibration Procedures |
| DC Voltage - Measure | (10 to 100) mV 100 mV to 1 V (1 to 10) V (10 to 100) V 100 V to 1 kV Up to 120 kV | 5.5 µV/V + 300 nV 5.1 µV/V + 300 nV 4.6 µV/V + 500 nV 6.5 µV/V + 30 µV 16.5 µV/V + 100 µV 1 mV/V | HP 3458A Opt 002 Ross VD120-6.2Y | |
| DC Current - Source | Up to 220 uA 220 uA to 2.2 mA (2.2 to 22) mA (22 to 100) mA (100 to 220) mA 220 mA to 1 A (1 to 2.2) A (2.2 to 3) A (3 to 11) A (11 to 20.5) A (10 to 16.5) A (16.5 to 150) A (150 to 1 000) A | 50 µA/A + 8 nA 50 µA/A + 8 nA 50 µA/A + 80 nA 60 µA/A + 800 nA 60 µA/A + 800 nA + [(200 x I ²) µA/A] 80 µA/A + 25 µA 80 µA/A + 25 µA + [(10 x I ²) µA/A] 380 µA/A + 40 µA 500 µA/A + 500 µA 1 mA/A + 750 µA 5 mA/A + 20 mA 5 mA/A + 140 mA 5 mA/A + 500 mA | Fluke 5700A/5725A Fluke 5520A Fluke 5520A with Coil | |



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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|
| DC Current - Measure | (10 to 100) μ A 100 μ A to 1 mA (1 to 10) mA (10 to 100) mA 100 mA to 1 A | 20 μ A/A + 800 pA 20 μ A/A + 5 nA 20 μ A/A + 50 nA 35 μ A/A + 500 nA 105 μ A/A + 10 μ A | HP 3458A Opt 002 | OEM and GIDEP Sourced Calibration Procedures |
| Resistance - Source | 1 Ω 1.9 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1 k Ω 1.9 k Ω 10 k Ω 19 k Ω 100 k Ω 190 k Ω 1 M Ω 1.9 M Ω 10 M Ω 19 M Ω 100 M Ω | 95 $\mu\Omega$ 181 $\mu\Omega$ 280 $\mu\Omega$ 513 $\mu\Omega$ 1.7 m Ω 3.3 m Ω 13 m Ω 24.7 m Ω 120 m Ω 228 m Ω 1.4 Ω 2.7 Ω 20 Ω 40 Ω 400 Ω 893 Ω 11 k Ω | Fluke 5700A/5725A | |
| Fixed Points | 25 Ω 100 Ω 200 Ω 400 Ω | 1.72 $\mu\Omega/\Omega$ 1.03 $\mu\Omega/\Omega$ 1.03 $\mu\Omega/\Omega$ 1.03 $\mu\Omega/\Omega$ | MI 5420-25 MI 5420-100 MI 5420-200 MI 5420-400 | |
| Resistance - Measure | Up to 10 Ω (10 to 100) Ω 100 Ω to 1 k Ω (1 to 10) k Ω (10 to 100) k Ω 100 k Ω to 1 M Ω (1 to 10) M Ω (10 to 100) M Ω 100 M Ω to 1 G Ω | 18 $\mu\Omega/\Omega$ + 50 $\mu\Omega$ 13 $\mu\Omega/\Omega$ + 500 $\mu\Omega$ 11 $\mu\Omega/\Omega$ + 500 $\mu\Omega$ 11 $\mu\Omega/\Omega$ + 5 m Ω 11 $\mu\Omega/\Omega$ + 50 m Ω 15 $\mu\Omega/\Omega$ + 2 Ω 53 $\mu\Omega/\Omega$ + 100 Ω 503 $\mu\Omega/\Omega$ + 1 k Ω 5 m Ω/Ω + 10 k Ω | HP 3458A Opt 002 | |

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------|
| AC Voltage - Source | <p>Up to 2.2 mV (10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz</p> <p>(2.2 to 22) mV (10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz</p> <p>(22 to 220) mV (10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz</p> <p>220 mV to 2.2 V (10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz</p> <p>(2.2 to 22) V (10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz</p> | <p>550 µV/V + 4.5 µV 210 µV/V + 4.5 µV 105 µV/V + 4.5 µV 370 µV/V + 4.5 µV 850 µV/V + 7 µV 1.1 mV/V + 13 µV 1.7 mV/V + 25 µV 3.4 mV/V + 25 µV</p> <p>550 µV/V + 5 µV 210 µV/V + 5 µV 105 µV/V + 5 µV 370 µV/V + 5 µV 850 µV/V + 7 µV 1.1 mV/V + 12 µV 1.7 mV/V + 25 µV 3.4 mV/V + 25 µV</p> <p>550 µV/V + 13 µV 210 µV/V + 8 µV 105 µV/V + 8 µV 320 µV/V + 8 µV 850 µV/V + 25 µV 1.1 mV/V + 25 µV 1.7 mV/V + 35 µV 3.4 mV/V + 80 µV</p> <p>500 µV/V + 80 µV 160 µV/V + 25 µV 75 µV/V + 6 µV 120 µV/V + 16 µV 250 µV/V + 70 µV 430 µV/V + 130 µV 1.05 mV/V + 350 µV 2.2 mV/V + 850 µV</p> <p>500 µV/V + 800 µV 160 µV/V + 250 µV 75 µV/V + 60 µV 120 µV/V + 160 µV 250 µV/V + 350 µV 500 µV/V + 1.5 mV 1.25 mV/V + 4.3 mV 2.7 mV/V + 8.5 mV</p> | Fluke 5700A/5725A | OEM and GIDEP Sourced Calibration Procedures |

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| AC Voltage - Source (cont.) | (22 to 220) V (10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz (220 to 250) V (15 to 50) Hz 50 Hz to 1 kHz 250 V to 1.1 kV 50 Hz to 1 kHz | 500 μV/V + 8 mV 160 μV/V + 2.5 mV 80 μV/V + 800 μV 220 μV/V + 3.5 mV 500 μV/V + 8 mV 1.5 mV/V + 90 mV 4.7 mV/V + 90 mV 11.5 mV/V + 190 mV 400 μV/V + 16 mV 80 μV/V + 3.5 mV 80 μV/V + 3.5 mV | Fluke 5700A/5725A | |
| AC Voltage - Measure | (1 to 10) mV (1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1MHz (1 to 4) MHz (4 to 8) MHz (10 to 100) mV (1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz (1 to 4) MHz (4 to 8) MHz (8 to 10) MHz 100 mV to 1 V (1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz (1 to 4) MHz (4 to 8) MHz (8 to 10) MHz | 300 μV/V + 3 μV 200 μV/V + 1.1 μV 300 μV/V + 1.1 μV 1 mV/V + 1.1 μV 5 mV/V + 1.1 μV 40 mV/V + 2 μV 12 mV/V + 5 μV 70 mV/V + 7 μV 200 mV/V + 8 μV 72 μV/V + 4 μV 72 μV/V + 2 μV 142 μV/V + 2 μV 302 μV/V + 2 μV 802 μV/V + 2 μV 3 mV/V + 10 μV 10 mV/V + 10 μV 15 mV/V + 10 μV 40 mV/V + 80 μV 150 mV/V + 100 μV 72 μV/V + 40 μV 72 μV/V + 20 μV 142 μV/V + 20 μV 302 μV/V + 20 μV 802 μV/V + 20 μV 3.0 mV/V + 100 μV 1 mV/V + 100 μV 15 mV/V + 100 μV 40 mV/V + 800 μV 150 mV/V + 1 mV | HP 3458A Opt 002 | OEM and GIDEP Sourced Calibration Procedures |

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| AC Current - Measure (cont.) | (1 to 10) mA (10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz (20 to 50) kHz (50 to 100) kHz (10 to 100) mA (10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz (20 to 50) kHz (50 to 100) kHz 100 mA to 1 A (10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz (20 to 50) kHz | 4 mA/A + 2 μ A 1.5 mA/A + 2 μ A 600 μ A/A + 2 μ A 300 μ A/ + 2 μ A 600 μ A/A + 2 μ A 4 mA/A + 4 μ A 5.5 mA/A + 15 μ A 4 mA/A + 20 μ A 1.5 mA/A + 20 μ A 600 μ A/A + 20 μ A 300 μ A/A + 20 μ A 600 μ A/A + 20 μ A 4 mA/A + 40 μ A 5.5 mA/A + 150 μ A 4 mA/A + 200 μ A 1.6 mA/A + 200 μ A 800 μ A/A + 200 μ A 1 mA/A + 200 μ A 3 mA/A + 200 μ A 10 mA/A + 400 μ A | HP 3458A Opt 002 | OEM and GIDEP Sourced Calibration Procedures |
| Electrical Simulation of Thermocouples Type B | (600 to 800) $^{\circ}$ C (800 to 1 000) $^{\circ}$ C (1 000 to 1 550) $^{\circ}$ C (1 550 to 1 820) $^{\circ}$ C | 0.51 $^{\circ}$ C 0.39 $^{\circ}$ C 0.35 $^{\circ}$ C 0.38 $^{\circ}$ C | Fluke 5500A-SC600 | |
| Type C | (0 $^{\circ}$ C to 150) $^{\circ}$ C (150 to 650) $^{\circ}$ C (650 to 1000) $^{\circ}$ C (1 000 to 1 800) $^{\circ}$ C (1 800 to 2 316) $^{\circ}$ C | 0.35 $^{\circ}$ C 0.3 $^{\circ}$ C 0.36 $^{\circ}$ C 0.58 $^{\circ}$ C 0.97 $^{\circ}$ C | | |
| Type E | (-250 to -100) $^{\circ}$ C (-100 to -25) $^{\circ}$ C (-25 to 350) $^{\circ}$ C (350 to 650) $^{\circ}$ C (650 to 1 000) $^{\circ}$ C | 0.58 $^{\circ}$ C 0.19 $^{\circ}$ C 0.16 $^{\circ}$ C 0.19 $^{\circ}$ C 0.24 $^{\circ}$ C | | |

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| Electrical Simulation of Thermocouples (cont.) | | | | |
| Type J | (-210 to -100) °C (-100 to -30) °C (-30 to 150) °C (150 to 760) °C (760 to 1 200) °C | 0.38 °C 0.21 °C 0.19 °C 0.3 °C 0.46 °C | Fluke 5500A-SC600 | OEM and GIDEP Sourced Calibration Procedures |
| Type K | (-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 1 000) °C (1 000 to 1 372) °C | 0.32 °C 0.19 °C 0.17 °C 0.2 °C 0.27 °C | | |
| Type L | (-200 to -100) °C (-100 to 800) °C (800 to 900) °C | 0.43 °C 0.3 °C 0.2 °C | | |
| Type N | (-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 410) °C (410 to 1 300) °C | 0.46 °C 0.25 °C 0.22 °C 0.21 °C 0.31 °C | | |
| Type R | (0 to 250) °C (250 to 400) °C (400 to 1 000) °C (1 000 to 1 767) °C | 0.66 °C 0.4 °C 0.38 °C 0.46 °C | | |
| Type S | (0 to 250) °C (250 to 1 000) °C (1 000 to 1 400) °C (1 400 to 1 767) °C (-250 to -150) °C | 0.54 °C 0.42 °C 0.43 °C 0.53 °C 0.73 °C | | |
| Type T | (-150 to 0) °C (0 to 120) °C (120 to 400) °C | 0.28 °C 0.19 °C 0.17 °C | | |
| Type U | (-200 to 0) °C (0 to 600) °C | 0.65 °C 0.31 °C | | |

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| Electrical Simulation of RTDs | | | | |
| PT 385 (100 Ohm) | (-200 to 0) °C (0 to 100) °C (100 to 300) °C (300 to 400) °C (400 to 630) °C (630 to 800) °C | 0.06 °C 0.08 °C 0.1 °C 0.12 °C 0.14 °C 0.27 °C | | |
| PT 3926 (100 Ohm) | (-200 to 0) °C (0 to 100) °C (100 to 300) °C (300 to 400) °C (400 to 630) °C | 0.06 °C 0.08 °C 0.1 °C 0.12 °C 0.14 °C | | |
| PT 3916 (100 Ohm) | (-200 to -190) °C (-190 to -80) °C (-80 to 0) °C (0 to 100) °C (100 to 260) °C (260 to 300) °C (300 to 400) °C (400 to 600) °C (600 to 630) °C | 0.29 °C 0.05 °C 0.06 °C 0.07 °C 0.08 °C 0.09 °C 0.1 °C 0.12 °C 0.27 °C | Fluke 5500A-SC600 | OEM and GIDEP Sourced Calibration Procedures |
| PT 385 (200 Ohm) | (-200 to 100) °C (100 to 260) °C (260 to 300) °C (300 to 400) °C (400 to 600) °C (600 to 630) °C | 0.05 °C 0.06 °C 0.14 °C 0.15 °C 0.16 °C 0.18 °C | | |
| PT 385 (500 Ohm) | (-200 to -80) °C (-80 to 100) °C (100 to 260) °C (260 to 400) °C (400 to 600) °C (600 to 630) °C | 0.05 °C 0.06 °C 0.07 °C 0.09 °C 0.1 °C 0.13 °C | | |
| PtNi 385 (120 Ohm) | (-80 to 1 000) °C (100 to 260) °C | 0.09 °C 0.16 °C | | |

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| Electrical Simulation of RTDs (cont.) PT 385 (1000 Ohm) | (-200 to 0) °C (0 to 100) °C (100 to 260) °C (260 to 300) °C (300 to 600) °C (600 to 630) °C | 0.03 °C 0.05 °C 0.06 °C 0.07 °C 0.08 °C 0.27 °C | | |
| Capacitance - Source 10 Hz to 10 kHz 10 Hz to 10 kHz 10 Hz to 3 kHz 10 Hz to 1 kHz 10 Hz to 1 kHz 10 Hz to 1 kHz 10 Hz to 1 kHz (10 to 600) Hz (10 to 300) Hz (10 to 150) Hz (10 to 120) Hz (10 to 80) Hz (0 to 50) Hz (0 to 20) Hz | (190 to 400) pF 400 pF to 1.1 nF (1.1 to 3.3) nF (3.3 to 11) nF (11 to 33) nF (33 to 110) nF (110 to 330) nF 330 nF to 1.1 µF (1.1 to 3.3) µF (3.3 to 11) µF (11 to 33) µF (33 to 110) µF (110 to 330) µF 330 µF to 1.1 mF | 5 mF/F + 10 pF 5 mF/F + 10 pF 5 mF/F + 10 pF 5 mF/F + 10 pF 2.5 mF/F + 100 pF 2.5 mF/F + 100 pF 2.5 mF/F + 300 pF 2.5 mF/F + 1 nF 3.5 mF/F + 3 nF 3.5 mF/F + 10 nF 4 mF/F + 30 nF 5 mF/F + 100 nF 7 mF/F + 300 nF 10 mF/F + 300 nF | Fluke 5500A-SC600 | OEM and GIDEP Sourced Calibration Procedures |
| AC Power - Source (45 to 65) Hz PF=1 | (33 to 330) mV (3.3 to 9) mA (9 to 33) mA (33 to 90) mA (90 to 330) mA (330 to 900) mA 900 mA to 2.2 A (2.2 to 4.5) A (4.5 to 11) A 330 mV to 1 kV (3.3 to 9) mA (9 to 33) mA (33 to 90) mA (90 to 330) mA (330 to 900) mA 900 mA to 2.2 A (2.2 to 4.5) A (4.5 to 11) A | 0.4 % of Watts Output 0.25 % of Watts Output 0.35 % of Watts Output 0.25 % of Watts Output 0.35 % of Watts Output 0.25 % of Watts Output 0.35 % of Watts Output 0.25 % of Watts Output 0.35 % of Watts Output 0.25 % of Watts Output 0.15 % of Watts Output 0.15 % of Watts Output 0.25 % of Watts Output 0.15 % of Watts Output 0.25 % of Watts Output 0.15 % of Watts Output 0.2 % of Watts Output 0.15 % of Watts Output | | |

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| DC Power - Source | 33 mV to 1 kV (3.3 to 9) mA (9 to 33) mA (33 to 90) mA (90 to 330) mA (330 to 900) mA 900 mA to 2.2 A (2.2 to 4.5) A (4.5 to 11) A | 0.04 % of Watts Output 0.03 % of Watts Output 0.04 % of Watts Output 0.03 % of Watts Output 0.08 % of Watts Output 0.06 % of Watts Output 0.12 % of Watts Output 0.09 % of Watts Output | | |
| Oscilloscopes Amplitude DC Signal into 50 Ω Load DC Signal into 1 MΩ Load Amplitude - Square Wave 50 Ω Load 1 MΩ Load Leveled Sine Wave - Flatness Relative to 50 kHz [5 mV to 5.5 V] Time Marker into 50 Ω Load - Source Edge Specs into 50Ω Load-Source Rise Time Amplitude Frequency Wave Generator - Source Amplitude (10 Hz to 10 kHz) Square, Sine, Triangle into 1 MΩ Square, Sine, Triangle into 50 Ω Frequency | (-6.6 to 6.6) V (-130 to 130) V 1 mV to 6.6 V p-p 10 Hz to 10 kHz 1 mV to 130 V p-p 10 Hz to 10 kHz 50 kHz to 100 MHz (100 to 300) MHz (300 to 600) MHz 5 s to 50 ms 20 ms to 100 ns (50 to 20) ns 10 ns (5 to 2) ns ≤ 300 ps 5 mV to 2.5V 1 kHz to 2 MHz 1.8 mV to 55 V p-p 1.8 mV to 2.5 V p-p 10 Hz to 100 kHz | 2.5 mV/V + 40 μV 500 μV/V + 40 μV 2.5 mV/V + 40 μV 1 mV/V + 40 μV 35 mV/V + 300 μV 40 mV/V + 300 μV 60 mV/V + 300 μV (25 + tx1000) μs/s 2.5 μs/s 2.5 μs/s 2.5 μs/s 2.5 μs/s 0 -/100 ps 20 mV/V + 200 μV 2.5 μHz/Hz 30 mV/V + 100 μV 30 mV/V + 100 μV 25 μHz/Hz + 15 mHz | Fluke 5500A-SC600 | OEM and GIDEP Sourced Calibration Procedures |

II. Time & Frequency

| PARAMETER/ EQUIPMENT | RANGE | CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)] | REFERENCE STANDARD OR EQUIPMENT | METHOD(S) |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Frequency - Source | (0.01 to 120) Hz 120 Hz to 1.2 kHz (1.2 to 12) kHz (12 to 120) kHz 120 kHz to 1.2 MHz (1.2 to 2) MHz | 25 µHz/Hz + 1 mHz 26 µHz/Hz + 1 mHz 27 µHz/Hz + 1 mHz 28 µHz/Hz + 15 mHz 29 µHz/Hz + 15 mHz 30 µHz/Hz + 15 mHz | Fluke 5500A-SC600 | OEM and GIDEP Sourced Calibration Procedures |
| Frequency – Measure | 0.03 Hz to 2.7 GHz | 2.5×10^{-8} Hz/Hz | Fluke PM6681/ PM9692 | |
| Stopwatches | Up to 86 400 s | 0.26 s | HP 5316A Frequency Counter, SRS DS345 Synthesized Function Generator, True Time 60TF WWVB Frequency Comparator | FCP-016 |

III. Thermodynamic

| PARAMETER/ EQUIPMENT | RANGE | CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)] | REFERENCE STANDARD OR EQUIPMENT | METHOD(S) |
|-------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------|
| Temperature | (-196 to -39) °C (-39 to 0) °C (0 to 232) °C (232 to 420) °C (420 to 660) °C | 0.008 °C 0.009 °C 0.014 °C 0.02 °C 0.026 °C | Hart 5698 w/ 1529 | OEM and GIDEP Sourced Calibration Procedures |
| Relative Humidity | (0 to 100) % RH | 1.4 %RH | Vaisala HMI 41/HMP 46 Indicator & Probe | |
| Infrared Non-Contact | (25 to 400) °C | 0.11 °C | Hart 5618 w/1529 | |

V. Dimensional

| PARAMETER/ EQUIPMENT | RANGE | CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)] | REFERENCE STANDARD OR EQUIPMENT | METHOD(S) |
|---------------------------------|----------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|
| Micrometers | Up to 4 in (4 to 40) in | 87.4 µin 165 µin | Grade 2 Gage Blocks with Optical Flats | OEM and GIDEP Sourced Calibration Procedures |
| Calipers | Up to 6 in (6 to 40) in | 737 µin 739 µin | Grade 2 Gage Blocks | |
| Height Gages | Up to 24 in | 163 µin | | |
| Indicators | Up to 4 in | 87.4 µin | | |

Notes:

1. Calibration and Measurement Uncertainties (CMC) (Expanded Uncertainties) are based on approximately a 95% confidence interval, using a coverage of $k=2$.
2. This laboratory offers calibration service in its laboratory and on-site at customer-designated locations. Since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
3. CMC for Electromagnetic - DC/Low Frequency do not include possible contributions to uncertainty caused by a "best available" unit under test.
4. The use of (t) refers to Time in seconds.
5. Asterisk (*) indicates services that cannot be performed on-site at customer-designated locations.
6. This scope is part of and must be included with the Certificate of Accreditation No. AC-1203.



President/CEO

